AMENDMENTS TO THE CLAIMS

Please amend the claims as follows:

1. (Currently amended) A card settlement method using a portable electronic device

having a fingerprint sensor that connects a portable electronic device having a fingerprint sensor

connected to a card company's card management device system via a communication terminal

for eard settlement of a settling commodity purchase charges or the like[[;]], comprising:

[[An]] confirming the identity confirmation step wherein said of a user by using a

portable electronic device having a fingerprint sensor [[reads]] to read the user's fingerprint using

said fingerprint sensor and ehecks it check the reading against pre-registered fingerprint data and

thereby confirms to determine whether or not the user is the owner of said portable electronic

device having a fingerprint sensor[[,]];

A transaction data generation and signature step wherein, when identity if the user is

confirmed as the owner of the portable electronic device having a fingerprint sensor, using said

portable electronic device having a fingerprint sensor encrypts to encrypt commodity order

information and pre-registered card information using a pre-registered transmission public key

and generates to generate transaction data, and electronically [[signs]] sign the generated

transaction data [[it]] using a pre-registered personal encryption key[[,]];

A transmission-step-wherein transmitting said electronically signed transaction data is

sent from the side of said portable electronic device having a fingerprint sensor to said card

management device system; [[,]] and

A decryption and settlement processing step wherein at said card management device

decrypts system, decrypting said electronically signed transaction data using a transmission

secret key paired with said transmission public key to obtain said commodity order information

and processes the settlement settle purchase charges associated with said commodity order.

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2. (Currently amended) A card settlement method using a portable electronic device

having a fingerprint sensor according to claim 1, wherein

[[Said]] said pre-registered fingerprint data and said pre-registered card information of

said portable electronic device having a fingerprint sensor are registered in a state in which they

are encrypted by a storage public key provided [[from]] by said card management device side,

system; and

The step of said decrypting said electronically signed transaction data [[at]] by said card

management device system includes a decryption step that uses using a storage secret key paired

with said storage public key.

3. (Currently amended) A card settlement method using a portable electronic device

having a fingerprint sensor according to claims 1 or 2, wherein:

said card management device system stores and retains the received [[said]]

electronically signed transaction data for a predetermined time period.

4. (Currently amended) A card settlement method using a portable electronic device

having a fingerprint sensor according to claim[[s 1,]] 2, [[or 3,]] wherein further comprising:

said card management device includes a step of updating system updating said pre-

registered transmission public key and said storage public key registered in said portable

electronic device having a fingerprint sensor; and

said portable electronic device having a fingerprint sensor replaces replacing said pre-

registered card information and said pre-registered fingerprint data with [[said]] updated pre-

registered card information and [[said]] updated pre-registered fingerprint data that was

encrypted using said updated storage public key.

5. (Currently amended) A portable electronic device having a fingerprint sensor that

connects suitable for connecting to a card company's card management device system via a

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Suite 2800 Seattle, Washington 98101 206.682.8100 communication terminal for [[card]] settlement of a commodity purchase charges or the like[[;]], comprising:

- (a) a fingerprint sensor[[,]];
- (b) a storage unit[[,]];
- (c) an external interface for coupling to said communication terminal[[,]]; and
- (d) a processor for driving and controlling the operation of these units[[,]]. Wherein:
- (i) said storage unit stores: [[the]] a transmission public key and a storage public key provided [[from]] by said card management device-side system, card settlement information for eard settlement provided to the owner of the portable electronic device having a fingerprint sensor, master fingerprint data, and a personal encryption key[[,]];

wherein said card settlement information and said master fingerprint data are stored in an encrypted state using said storage public key; and

- (ii) said processor comprises:
- (1) a personal encryption key generation means for generating said personal encryption key when said fingerprint sensor reads said master fingerprint data,
- (2) an identity confirmation means for confirming identity by comparing a fingerprint read by said fingerprint sensor against said <u>master</u> fingerprint data <u>stored</u> in said storage unit, and
- (3) a transaction data generation and transmission means for encrypting commodity order information and said card <u>settlement</u> information using said transmission public key and generating to secure the transaction data, for electronic signing <u>said</u>

LAW OFFICES OF CHRISTENSEN O'CONNOR JOHNSON KINDNESSPLE 1420 Fifth Avenue Suite 2800 Seattle, Washington 98101 206.682.8100 generated transaction data using said personal encryption key, and for sending the electronically

signed [[said]] transaction data to said card management device system.

6. (Currently amended) A portable electronic device having a fingerprint sensor,

used in card settlement, according to claim 5, wherein:

said processor also comprises a master fingerprint data registration means [[so]] that

when it receives in response to receiving a registration permission signal from said card

management device, it system, reads said master fingerprint data using said fingerprint sensor

and registers [[it]] said master fingerprint data, and

said personal encryption key generation means generates said personal encryption key

using the read master fingerprint data read when reading said master fingerprint data.

7. (Currently amended) A card management device system for performing card

settlement of settling commodity purchase charges[[, etc.]] or the like based on transaction data

received via a communication terminal from a portable electronic device having a fingerprint

sensor[[;]], comprising:

an encryption key generation means for generating a storage public key and a

transmission public key provided to said portable electronic device having a fingerprint

sensor[[,]];

a registration procedure processing means for requesting identity identification

information for determining [[the]] a user when a registration request signal is received from said

portable electronic device having a fingerprint sensor, and for sending a registration permission

signal to said portable electronic device having a fingerprint sensor when the user is determined

based on the received identity identification information[[,]];

a decryption means for decrypting said transaction data using a storage secret key paired

with said storage public key and a transmission secret key paired with said transmission public

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key when [[said]] encrypted and electronically signed transaction data is received from said portable electronic device having a fingerprint sensor[[,]]; and

a settlement processing means for processing settlement based on said decrypted transaction data.

8. (Currently amended) A card settlement system that connects a portable electronic device having a fingerprint sensor to a card company's card management device system via a communication terminal and performs card settlement of commodity purchase charges, etc.; or the like, wherein:

(a) [[Said]] said portable electronic device having a fingerprint sensor comprises:

(i) [[An]] an identity confirmation means wherein the for reading a user's fingerprint is read using said fingerprint sensor and ehecked comparing said read fingerprint data against pre-registered fingerprint data, thereby confirming to determine whether or not the user is the owner of said portable electronic device having a fingerprint sensor,

(ii) [[A]] a transaction data generation and signature means wherein, when for, after the identity of the user is confirmed, encrypting commodity order information and pre-registered card information are encrypted using a pre-registered transmission public key [[and]] to generate transaction data is generated, and the transaction data is and electronically signed signing said transaction data using a pre-registered personal encryption key, and

(iii) [[A]] <u>a</u> transmission means for sending said electronically signed transaction data to said card management <u>device</u> <u>system</u>; <u>and</u>

(b) [[Said]] said card management device system comprises:

(i) [[A]] <u>a</u> reception means for receiving said electronically signed transaction data,

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206.682.8100

(ii) [[A]] a decryption means for decrypting said received

electronically signed transaction data using a transmission secret key paired with said

transmission public key, and

(iii) [[A]] a settlement processing means for processing settlement

based on said decrypted transaction data.

9. (Currently amended) A card settlement system that uses a portable electronic

device having a fingerprint sensor according to claim [[9]] 8, wherein:

said pre-registered fingerprint data and said pre-registered card information of said

portable electronic device having a fingerprint sensor are registered in a state in which they are

encrypted by a storage public key provided [[from]] by said card management device side,

system; and

said card management device's system's decryption means decrypts using a storage secret

key paired with said storage public key.

10. (Currently amended) A card settlement system that uses a portable electronic

device having a fingerprint sensor according to claims 8 or 9, wherein:

said card management device system also comprises a storage means for storing and

retaining said received transaction data for a predetermined time period.

11. (Currently amended) A card settlement system that uses a portable electronic

device having a fingerprint sensor according to claims 8, claim 9, [[or 10,]] wherein:

said card management device system also comprises an encryption key update means for

updating said transmission public key and said storage public key registered in said portable

electronic device having a fingerprint sensor,; and

said portable electronic device having a fingerprint sensor comprises a data update means

for replacing said pre-registered card information and said pre-registered fingerprint data with

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Suite 2800 Seattle, Washington 98101 206.682.8100 [[said]] <u>updated pre-registered</u> card information and [[said]] <u>updated pre-registered</u> fingerprint

data that was encrypted using said updated storage public key.

12. (New) A card settlement system that uses a portable electronic device having a

fingerprint sensor according to claim 10, wherein:

said card management system also comprises an encryption key update means for

updating said transmission public key and said storage public key; and

said portable electronic device having a fingerprint sensor comprises a data update means

for replacing said pre-registered card information and said pre-registered fingerprint data with

updated pre-registered card information and updated pre-registered fingerprint data encrypted

using said updated storage public key.

13. (New) A card settlement method using a portable electronic device having a

fingerprint sensor according to claim 3, further comprising:

said card management system updating said pre-registered transmission public key and

said storage public key; and

said portable electronic device having a fingerprint sensor replacing said pre-registered

card information and said pre-registered fingerprint data with updated pre-registered card

information and updated pre-registered fingerprint data encrypted using said updated storage

public key.

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Suite 2800 Seattle, Washington 98101 206.682.8100